

SECTION 02298
TEMPORARY PEDESTRIAN FACILITIES

PART 1 - GENERAL

0.1 DESCRIPTION OF WORK

- A.** This section specifies requirements for furnishing, installing, operating and maintaining temporary pedestrian facilities. Temporary pedestrian facilities shall be provided for all construction work zones.
- B.** Except for the materials shown on the Drawings to be left in place, all materials provided by the Contract under this section shall be removed by the Contractor when no longer required

0.2 SUBMITTALS

- A.** Submit plans of temporary pedestrian facilities for each phase of construction at least 30 days prior to implementation of that portion of the Work.
 1. Indicate construction zones, laydown areas, storage areas, and location of construction field offices. Indicate access locations for each zone.
 2. Indicate pedestrian routes and detours through and around each construction zone.
 3. Indicate all existing and temporary crosswalks.
 4. Indicate the extent and type of all proposed temporary pedestrian facilities.
 5. Indicate all directional signage and directional arrows.
 6. Indicate the proposed surface improvements in the areas of temporary pedestrian facilities.

0.3 QUALITY ASSURANCE

- A.** Structural loads shall be calculated according to the Massachusetts Building Code.
- B.** Electrical components shall conform to the Massachusetts Electrical Code.
- C.** Temporary pedestrian facilities shall conform with:
 1. Americans With Disabilities Act, Accessibility Guidelines for Buildings and Facilities

2. Rules and Regulations of the Massachusetts Architectural Access Board
3. Massachusetts Building Code
4. Manual on Uniform Traffic Control Devices
5. Occupational Health and Safety, Code 1926
6. City of Boston Traffic Department Guidelines

0.4 PROJECT CONDITIONS

- A.** Coordination will be required with the work requirements to install permanent paved walks, and curbs.

PART 2 - PRODUCTS

0.1 CONCRETE

- A.** Precast concrete barriers meeting the Massachusetts Highway Department Standard Specification 629. Precast barriers are the only acceptable barrier where pedestrians are being protected from vehicular traffic.

0.2 METALS

- A.** Chain-link fence meeting the Specification 02444.
- B.** Hot galvanized pipe, ASTM A53 Type E, Grade B coated with zinc inside and outside. Brackets, plates, anchoring elements, and miscellaneous components shall be hot-dip galvanized.
- C.** Welding shall conform with AWS D1.1 Structural Welding Code-Steel and AWS D1.3 Structural Welding Code-Sheet Metal.

0.3 WOOD

- A.** Wood and Timber Members: Suitable for service, sized to limit deflection under full AASHTO H-20 and construction loading of 1/2 inch.
- B.** Lumber shall be seasoned and have a maximum moisture of 19%.
- C.** Dimensioned lumber shall be straight grained, sound S4S dressed lumber, grade Select Structural. Allowable species are Douglas Fir and Spruce-Pine-Fir.

- D.** Plywood shall be $\frac{3}{4}$ inch, exterior Medium Density Overlay.
- E.** Plywood flooring shall be Sturdifloor Exposure-1, exterior adhesive type, $\frac{3}{4}$ inch thick with non-skid epoxy resin and aggregate coat on exposed surfaces.

0.4 ELECTRICAL

- A.** Fluorescent light fixtures shall be UL listed and suitable for wet and outdoor installations. Light housing shall be 20 gauge steel seamless with white corrosion resistant finish of baked enamel, epoxy or porcelain. Lamp shall be rapid start and energy saving type. Ballast shall be 120 V, Class P, thermally protected, high power factor.
- B.** Electrical components shall be grounded. Metal frames shall be bonded to the electrical system grounding conductor as well as to a locally driven rod. Final installation of grounding system shall ensure that no point in the metal framing shall have a resistance measurement to local earth ground exceeding 2 ohms.
- C.** Conduit shall be UL listed with corrosion resistant coating for all electrical system wiring, with all fittings meeting the Massachusetts Electrical Code for outdoor installations.

PART 3 - EXECUTION

0.1 INSTALLATION

- A.** For each work area where temporary pedestrian facilities are used, perform on-site assembly expeditiously to minimize interference with the walking public and vehicular traffic. Complete and place in service all required temporary pedestrian facilities prior to the start of the construction work in the area.
- B.** Prepare substrate surfaces to support barriers and fences with slopes not to exceed 5% in the direction of the traveling path, and does not exceed 2% across the traveling path.
- C.** Firmly secure temporary pedestrian facilities to substrates as required to resist all wind, snow, dead and live loads.

0.2 MAINTENANCE

- A.** The Contractor is responsible to repair all temporary pedestrian facilities until it can be removed following construction

- B.** The Contractor shall remove snow and ice, cleaning, and make all necessary repairs
- C.** The Contractor shall inspect all temporary facilities daily and make all necessary repairs to maintain the structural integrity and allow safe passage by the walking public and vehicular traffic.
- D.** Maintain the decking in an acceptable condition at all times.

PART 4 - MEASUREMENT AND PAYMENT

0.1 MEASUREMENT

- A.** Temporary pedestrian facilities will be paid at the Contract unit price by the linear foot installed

0.2 PAYMENT

- A.** Decking will be paid for at the Contract unit price for the quantity determined as specified above.

0.3 PAYMENT ITEMS

ITEM NO.	DESCRIPTION	UNIT
0240.503	TEMPORARY PEDESTRIAN FACILITIES	LF

END OF SECTION

NOTES TO THE DESIGNER

A. Any request to modify or waive the specification requirements listed below must be approved in writing from the MBTA Assistant General Manager for Design and Construction:

1. None